

SEQUENCE LISTING

<110> MERISTEM THERAPEUTICS

<120> SYNTHETIC AND CHIMERIC PROMOTERS, EXPRESSION CASSETTES,
PLASMIDS, VECTORS, TRANSGENIC PLANTS ET SEEDS INCLUDING
THEM AND PROCESSES FOR PRODUCING THE SAME

<130> PrHMGW1

<140>

<141>

<160> 37

<170> PatentIn Ver. 2.1

<210> 1

<211> 417

<212> DNA

<213> Triticum aestivum

<220>

<221> misc_feature

<222> (22)..(29)

<223> Prolamine- like box

<220>

<221> misc_feature

<222> (70)..(73)

<223> GATA box

<220>

<221> misc_feature

<222> (87)..(90)

<223> GATA box

<220>

<221> misc_feature

<222> (127)..(133)

<223> Prolamine-like box

<220>

<221> misc_feature

<222> (161)..(168)

<223> G-like box

<220>

<221> enhancer

<222> (193)..(230)

<223> Enhancer box

<220>

<221> TATA_signal

<222> (349)..(355)

<223> TATA box

<220>

<221> misc_feature

<222> (379)

<223> Transcription initiation site

<400> 1

agctttgagt ggccgtagat ttgcaaaagc aatggctaac agacacatat tctgccaaac 60

cccaagaagg ataatcactt ttcttagata aaaaagaaca gaccaatata caaacatcca 120

cacttctgca aacaatacat cagaactagg attacgccga ttacgtggct ttagcagact 180

gtccaaaaat ctgttttgca aagctccaat tgctccttgc ttatccagct tcttttgtgt 240

tggcaaaactg cgcttttcca accgattttg ttcttctcgc gctttcttct taggctaaac 300

aaacctcacc gtgcacgcag ccatggtcct gaaccttcac ctcgtcccta taaaagccta 360

gccaaccttc acaatcttat catcacccac aacaccgagc accacaaaact agagatc 417

<210> 2

<211> 181

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPrl126

promoter

<220>

<221> TATA_signal

<222> (113) .. (119)

<223> TATA box

<220>

<221> misc_feature

<222> (143)

<223> Transcription Initiation site

<400> 2

gtgttgga actgcgcttt tccaaccgat ttgttcttc tcgcgctttc ttcttaggct 60

aaacaaacct caccgtgcac gcagccatgg tcctgaacct tcacctcgtc cctataaaag 120

cctagccaac cttcacaatc ttatcatcac ccacaacacc gagcaccaca aactagagat 180

c 181

<210> 3

<211> 244

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPPr1127

promoter

<220>

<221> enhancer

<222> (20) .. (57)

<223> Enhancer box

<220>

<221> TATA_signal

<222> (176)..(182)

<223> TATA box

<220>

<221> misc_feature

<222> (206)

<223> Transcription Initiation site

<400> 3

gcagactgtc caaaaatctg ttttgcaaag ctccaattgc tccttgctta tccagcttct 60
tttgtgttgg caaactgcg c tttccaacc gattttgttc ttctcgcgct ttcttcttag 120
gctaaacaaa cctcaccgtg cacgcagcca tggctctgaa ccttcacctc gtccctataa 180
aagcctagcc aaccttcaca atcttatcat caccacacac accgagcacc acaaactaga 240
gatc 244

<210> 4

<211> 277

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPrl128

promoter

<220>

<221> misc_feature

<222> (21)..(28)

<223> G-like box

<220>

<221> enhancer

<222> (53)..(90)

<223> Enhancer box

<220>

<221> TATA_signal

<222> (209)..(215)

<223> TATA box

<220>

<221> misc_feature

<222> (239)

<223> Transcription Initiation Site

<400> 4

cagaactagg' attacgccga ttacgtggct ttagcagact gtccaaaaat ctgttttgca 60
aagctccaat tgctccttgc ttatccagct tcttttgtgt tggcaaactg cgcttttcca 120
accgattttg ttcttctcgc gctttcttct taggctaaac aaacctcacc gtgcacgcag 180
ccatggctct gaaccttcac ctgcgtcccta taaaagccta gccaaccttc acaatcttat 240
catcacccac aacaccgagc accacaaaact agagatc 277

<210> 5

<211> 472

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPrl130
promoter

<220>

<221> misc_feature

<222> (22)..(29)

<223> Prolamine-like box

<220>

<221> misc_feature

<222> (70)..(73)

<223> GATA box

<220>

<221> misc_feature

<222> (87)..(90)

<223> GATA box

<220>

<221> misc_feature

<222> (127)..(133)

<223> Prolamine-like box

<220>

<221> misc_feature

<222> (161)..(168)

<223> G-like box

<220>

<221> enhancer

<222> (193)..(230)

<223> Enhancer box

<220>

<221> misc_feature

<222> (314)..(368)

<223> As2/As2/As1 box

<220>

<221> TATA_signal

<222> (404)..(410)

<223> TATA box

<220>

<221> misc_feature

<222> (434)

<223> Transcription Initiation Site

<400> 5

agcttttgagt ggccgtagat ttgcaaaagc aatggctaac agacacatat tctgccaaac 60

cccaagaagg ataatcactt ttcttagata aaaaagaaca gaccaatata caaacatcca 120

cacttctgca aacaatacat cagaactagg attacgccga ttacgtggct ttagcagact 180
 gtccaaaaat ctgttttgca aagctccaat tgctccttgc ttatccagct tcttttgtgt 240
 tggcaaaactg cgcttttcca accgattttg ttcttctcgc gctttcttct taggctaaac 300
 aaacctcacc gtgattgatg tgatatcaag attgatgtga tatctccact gacgtaaggg 360
 atgacgcaca cgcagccatg gtcctgaacc ttcacctcgt ccctataaaa gcctagccaa 420
 ccttcacaat cttatcatca cccacaacac cgagcaccac aaactagaga tc 472

<210> 6

<211> 455

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPrl131

promoter

<220>

<221> misc_feature

<222> (22)..(29)

<223> Prolamine-like box

<220>

<221> misc_feature

<222> (70)..(73)

<223> GATA box

<220>

<221> misc_feature

<222> (87)..(90)

<223> GATA box

<220>

<221> misc_feature

<222> (127)..(133)

<223> Prolamine-like box

<220>

<221> misc_feature

<222> (161)..(168)

<223> G-like box

<220>

<221> enhancer

<222> ()..)

<223> Enhancer box

<220>

<221> misc_feature

<222> ()..)

<223> As2/As1 box

<220>

<221> TATA_signal

<222> ()..(393)

<223> TATA box

<220>

<221> misc_feature

<222> ()

<223> Transcription Initiation Site

<400> 6

agctttgagt ggccgtagat ttgcaaaagc aatggctaac agacacatat tctgccaaac 60
cccaagaagg ataatcactt ttcttagata aaaaagaaca gaccaatata caaacatcca 120
cacttctgca aacaatacat cagaactagg attacgccga ttacgtggct ttagcagact 180
gtccaaaaat ctgttttgca aagctccaat tgctccttgc ttatccagct tcttttgtgt 240
tggcaaaactg cgcttttcca accgattttg ttcttctcgc gctttcttct taggctaaac 300
aaacctcacc gtgattgatg tgatatctcc actgacgtaa gggatgacgc acacgcagcc 360
atggctctga accttcacct cgtccctata aaagcctagc caaccttcac aatcttatca 420
tcacccacaa caccgagcac cacaaactag ayatc 455

<210> 7

<211> 332

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MP1135
promoter

<220>

<221> misc_feature

<222> (21) .. (28)

<223> G-like box

<220>

<221> enhancer

<222> (53) .. (90)

<223> Enhancer box

<220>

<221> misc_feature

<222> (174) .. (228)

<223> As2/As2/As1 box

<220>

<221> TATA_signal

<222> (264) .. (270)

<223> TATA box

<220>

<221> misc_feature

<222> (294)

<223> Transcription Initiation Site

<400> 7

cagaactagg attacgccga ttacgtggct ttagcagact gtccaaaaat ctgtttttgca 60
aagctccaat tgctccttgc ttatccagct tctttttgtgt tggcaaactg cgctttttcca 120
accgattttg ttctttctgc gctttcttct taggctaaac aaacctcacc gtgattgatg 180
tgatatcaag attgatgtga tatctccact gacgtaaggg atgacgcaca cgcagccatg 240

gtcctgaacc ttcacctcgt ccctataaaa gcctagccaa ccttcacaat cttatcatca 300
cccacaacac cgagcaccac aaactagaga tc 332

<210> 8

<211> 219

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPrl136
promoter

<220>

<221> misc_feature

<222> (78)..(115)

<223> As2/As1 box

<220>

<221> TATA_signal

<222> (151)..(157)

<223> TATA box

<220>

<221> misc_feature

<222> (181)

<223> Transcription Initiation Site

<400> 8

gtgttggcaa actgcgcttt tccaaccgat ttgtttcttc tcgcgctttc ttcttaggct 60
aaacaaacct caccgtgatt gatgtgatat ctccactgac gtaagggatg acgcacacgc 120
agccatggtc ctgaaccttc acctcgcccc tataaaaagcc tagccaacct tcacaatctt 180
atcatcacc cacaacaccga gcaccacaaa ctagagatc 219

<210> 9

<211> 282

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPR1137
promoter

<220>

<221> enhancer

<222> (20) .. (57)

<223> Enhancer box

<220>

<221> misc_feature

<222> (141) .. (178)

<223> As2/As1 box

<220>

<221> TATA_signal

<222> (214) .. (220)

<223> TATA box

<220>

<221> misc_feature

<222> (244)

<223> Transcription Initiation Site

<400> 9

gcagactgtc caaaaatctg ttttgcaaag ctccaattgc tccttgctta tccagcttct 60
tttgtgttg caaactgcg ttttccaacc gattttgttc ttctcgcgct ttcttcttag 120
gctaaacaaa cctcacctg attgatgtga tatctccact gacgtaagg atgacgcaca 180
cgcagccatg gtcttgaacc ttcacctcgt ccctataaaa gcctagccaa ccttcacaat 240
cttatcatca cccacaacac cgagcaccac aaactagaga tc 282

<210> 10

<211> 315

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPrl138

promoter

<220>

<221> misc_feature

<222> (21) .. (28)

<223> G-like box

<220>

<221> enhancer

<222> (53) .. (90)

<223> Enhancer box

<220>

<221> misc_feature

<222> (174) .. (211)

<223> As2/As1 box

<220>

<221> TATA_signal

<222> (247) .. (253)

<223> TATA box

<220>

<221> misc_feature

<222> (277)

<223> Transcription Initiation Site

<400> 10

cagaactagg attacgccga ttacgtggct ttagcagact gtccaaaaat ctgttttgca 60
aagctccaat tgctccttgc ttatccagct tcttttgtgt tggcaaaactg cgctttttcca 120
accgattttg ttctttctgc gctttcttct taggctaaac aaacctcacc gtgattgatg 180
tgatatctcc actgacgtaa gggatgacgc acacgcagcc atggtcctga accttcacct 240
cgtccttata aaagcctagc caaccttcac aatcttatca tcacccacaa caccgagcac 300

cacaaactag agatc

315

<210> 11

<211> 505

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPrl139

promoter

<220>

<221> misc_feature

<222> (4)..(26)

<223> Cereal box

<220>

<221> misc_feature

<222> (39)..(61)

<223> Cereal box

<220>

<221> misc_feature

<222> (120)..(123)

<223> GATA box

<220>

<221> misc_feature

<222> (137)..(140)

<223> GATA box

<220>

<221> misc_feature

<222> (72)..(79)

<223> Prolamine-like box

<220>

<221> misc_feature

<222> (177)..(183)

<223> Prolamine like box

<220>

<221> misc_feature

<222> (211)..(218)

<223> G-like box

<220>

<221> enhancer

<222> (243)..(280)

<223> Enhancer box

<220>

<221> misc_feature

<222> (364)..(401)

<223> As2/As1 box

<220>

<221> TATA_signal

<222> (437)..(443)

<223> TATA box

<220>

<221> misc_feature

<222> (467)

<223> Transcription Initiation Site

<400> 11

ctcgacatgg ttagaagttt tgagtgccgc cactactcga catggttaga agttttgagt 60
ggccgtagat ttgcaaaagc aatggctaac agacacatat tctgcaaac cccaagaagg 120
ataatcactt ttcttagata aaaaagaaca gaccaatata caaacatcca cacttctgca 180
aacaatacat cagaactagg attacgccga ttacgtggct ttagcagact gtccaaaaat 240
ctgttttgca aagctccaat tgctccttgc ttatccagct tcttttgtgt tggcaaactg 300
cgcttttcca accgattttg ttcttctcgc gctttcttct taggctaaac aaacctcacc 360
gtgattgatg tgatatctcc actgacgtaa gggatgacgc acacgcagcc atggtcctga 420
accttcacct cgtccctata aaagcctagc caaccttcac aatccttatca tcaccacaaa 480
caccgagcac caciaactag agatc 505

<210> 12

<211> 96

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPrl197

promoter

<220>

<221> TATA_signal

<222> (28)..(34)

<223> TATA box

<220>

<221> misc_feature

<222> (58)

<223> Transcription Initiation Site

<400> 12

catggtcctg aaccttcacc tcgtccctat aaaagcctag ccaaccttca caatcttattc 60

atcacccaca acaccgagca ccacaaaacta gagatc 96

<210> 13

<211> 187

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPrl198

promoter

<220>

<221> misc_feature

<222> (8)..(15)

<223> G-like box

<220>

<221> enhancer

<222> (40)..(77)

<223> Enhancer box

<220>

<221> TATA_signal

<222> (119)..(125)

<223> TATA box

<220>

<221> misc_feature

<222> (149)

<223> Transcription Initiation Site

<400> 13

acgccgatta cgtggcttta gcagactgtc caaaaatctg ttttgcaaag ctccaattgc 60
tccttgctta tccagcttct tttgtgttgg ccatggctct gaaccttcac ctcgtccta 120
taaaagccta gccaaccttc acaatcttat catcaccac aacaccgagc accacaaact 180
agagatc 187

<210> 14

<211> 290

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPPr1199

promotoer

<220>

<221> misc_feature

<222> (6)..(25)

<223> GC rich box

<220>

<221> misc_feature

<222> (34)..(41)

<223> G-like box

<220>

<221> enhancer

<222> (66)..(103)

<223> Enhancer box

<220>

<221> TATA_signal

<222> (222)..(228)

<223> TATA box

<220>

<221> misc_feature

<222> (252)

<223> Transcription Initiation Site

<400> 14

caaatggggcc ggaccggggcc ggcccagcgc cgattacgtg gcttttagcag actgtccaaa 60
aatctgtttt gcaaagctcc aattgctcct tgcttatcca gcttcttttg tgttggcaaa 120
ctgcgctttt ccaaccgatt ttgttcttct cgcgctttct tcttaggcta aacaaacctc 180
accgtgcacg cagccatggt cctgaacctt cacctcgtcc ctataaaagc ctagccaacc 240
ttcacaatct tatcatcacc cacaacaccg agcaccacaa actagagatc 290

<210> 15

<211> 381

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPrl200

<220>

<221> misc_feature

<222> (4) .. (26)

<223> Cereal box

<220>

<221> misc_feature

<222> (39)..(61)

<223> Cereal box

<220>

<221> misc_feature

<222> (87)..(94)

<223> G-like box

<220>

<221> enhancer

<222> (119)..(156)

<223> Enhancer box

<220>

<221> misc_feature

<222> (240)..(277)

<223> As2/As1 box

<220>

<221> TATA_signal

<222> (313)..(319)

<223> TATA box

<220>

<221> misc_feature

<222> (343)

<223> Transcription Initiation Site

<400> 15

ctcgacatgg ttagaagttt tgagtgccgc cactactcga catgggttaga agttttgagt 60
ggccgtagat ttgctctaga cgccgattac gtggctttag cagactgtcc aaaaatctgt 120
tttgcaaagc tccaattgct ccttgcttat ccagcttctt ttgtgttggc aaactgcgct 180
tttccaaccg attttgttct tctcgcgctt tcttcttagg ctaaacaaac ctcaccgtga 240
ttgatgtgat atctccactg acgtaaggga tgacgcacac gcagccatgg tcctgaacct 300
tcacctcgtc cctataaaaag cctagccaac cttcacaatc ttatcatcac ccacaacacc 360
gagcaccaca aactagagat c 381

<210> 16

<211> 343

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPr1213

Promoter

<220>

<221> misc_feature

<222> (4) .. (26)

<223> Cereal box

<220>

<221> misc_feature

<222> (39) .. (61)

<223> Cereal box

<220>

<221> enhancer

<222> (119)..(156)

<223> Enhancer box

<220>

<221> misc_feature

<222> (87)..(94)

<223> G-like box

<220>

<221> TATA_signal

<222> (275)..(281)

<223> TATA box

<220>

<221> misc_feature

<222> (305)

<223> Transcription Initiation Site

<400> 16

ctcgacatgg ttagaagttt tgagtgccgc cactactcga catgggttaga agttttgagt 60
ggccgtagat ttgctctaga cgccgattac gtggcttttag cagactgtcc aaaaatctgt 120
tttgcaaagc tccaattgct ctttgcttat ccagcttctt ttgtgttggc aaactgcgct 180
tttccaaccg attttgttct tctcgcgctt tcttcttagg ctaaacaaac ctcaccgtgc 240
acgcagccat ggtcctgaac cttcacctcg tccctataaa agcctagcca accttcacaa 300
tcttatcatc acccacaaca ccgagcacca caaactagag atc 343

<210> 17

<211> 358

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPrl216
promoter

<220>

<221> misc_feature

<222> (7)..(14)

<223> G-like box

<220>

<221> enhancer

<222> (39)..(76)

<223> Enhancer box

<220>

<221> misc_feature

<222> (102)..(109)

<223> G-like box

<220>

<221> enhancer

<222> (134) .. (171)

<223> Enhancer box

<220>

<221> TATA_signal

<222> (290) .. (296)

<223> TATA box

<220>

<221> misc_feature

<222> (320)

<223> Transcription Initiation Site

<400> 17

cgccgattac gtggccttag cagactgtcc aaaaatctgt ttgcaaagc tccaattgct 60

ccttgcttat ccagcttctt ttgtgttggc ctagacgccg attacgtggc tttagcagac 120

tgtccaaaaa tctgttttgc aaagctccaa ttgctccttg cttatccagc ttcttttgtg 180

ttggcaaact gcgcttttcc aaccgatttt gttcttctcg cgctttcttc ttaggctaaa 240

caaacctcac cgtgcacgca gccatggtcc tgaaccttca cctcgtccct ataaaagcct 300

agccaacctt cacaatctta tcatcaccca caacaccgag caccacaaac tagagatc 358

<210> 18

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:Oligodesoxynucleotide

<400> 18

atcggaattc gtgttggcaa actgc

25

<210> 19

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:Oligodesoxynucleotide

<400> 19

atcgggaatt cgcagactgt ccaaaaatc

29

<210> 20

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial
Sequence:Oligodesoxynucleotide

<400> 20

atcgaattc cagaactagg attacgccg

29

<210> 21

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

Sequence:Oligodesoxynucleotide

<400> 21

tacgaattcc cagctttgag tggccgtag

29

<210> 22

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

Sequence:Oligodesoxynucleotide

<400> 22

atcggaattc tagacgccga ttacgtggct ttagc

35

<210> 23

<211> 83

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

Sequence:Oligodesoxynucleotide

<400> 23

tacgaattcc tcgacatggt tagaagtttt gagtgccgcc actactcgac atggttagaa 60
gttttgagtg gccgtagatt tgc 83

<210> 24

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

Sequence:Oligodesoxynucleotide

<400> 24

atcggaattc gccgattacg tggctttagc

30

<210> 25

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

Sequence:Oligodesoxynucleotide

<400> 25

atcggaattc gcagccatgg tcctgaacc

29

<210> 26

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

Sequence:Oligodesoxynucleotide

<400> 26

tacgaattcc tcgacatgg

19

<210> 27

<211> 63

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

Sequence:Oligodesoxynucleotide

<400> 27

attgatgtga tatctccact gacgtaaggg atgacgcaca cgcagccatg gtcctgaacc 60

ttc 63

<210> 28

<211> 80

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

Sequence:Oligodesoxynucleotide

<400> 28

attgatgtga tatcaagatt gatgtgatat ctccactgac gtaagggatg acgcacacgc 60

agccatgggc ctgaaccttc 80

<210> 29

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

Sequence:Oligodesoxynucleotide

<400> 29

tacggatccc cgggatctc tagtttgtgg tgc

33

<210> 30

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

Sequence:Oligodesoxynucleotide

<400> 30

gctctagagc aaatctacgg ccactc

26

<210> 31

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

Sequence:Oligodesoxynucleotide

<400> 31

gctctagacc aacacaaaag aagctgg

27

<210> 32

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

Sequence:Oligodesoxynucleotide

<400> 32

catgccatgg ccaacacaaa agaagctgg

29

<210> 33

<211> 63

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

Sequence:Oligodesoxynucleotide

<400> 33

tgcgcatcc cttacgtcag tggagatc acatcaatca cggtgagggtt tgtttagcct 60

aag

63

<210> 34

<211> 80

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial

Sequence:Oligodesoxynucleotide

<400> 34

tgcgcatcc cttacgtcag tggagatc acatcaatct tgatcacaca tcaatcacgg 60

tgaggtttgt ttagcctaag

80

<210> 35

<211> 236

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPrl133

promoter

<220>

<221> misc_feature

<222> (78) .. (132)

<223> As2/As2/As1 box

<220>

<221> misc_feature

<222> (198)

<223> Transcription Initiation Site

<400> 35

gtgttggcaa actgcgcttt tccaaccgat ttgtttcttc tcgcgctttc ttcttaggct 60
aaacaaacct caccgtgatt gatgtgatat caagattgat gtgatatctc cactgacgta 120
agggatgacg cacacgcagc catggtcctg aaccttcacc tcgtccctat aaaagcctag 180
ccaaccttca caatcttatc atcacccaca acaccgagca ccacaaacta gagatc 236

<210> 36

<211> 299

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MPrl134

<220>

<221> enhancer

<222> (20)..(57)

<223> Enhancer box

<220>

<221> misc_feature

<222> (141)..(195)

<223> As2/As2/As1 box

<220>

<221> misc_feature

<222> (261)

<223> Transcription Initiation Site

<400> 36

gcagactgtc caaaaatctg ttttgcaaag ctccaattgc tccttgctta tccagcttct 60

tttgtgttgg caaactgcg ttttccaacc gattttgttc ttctcgcgct ttcttcttag 120

gctaaacaaa cctcaccgtg attgatgtga tatcaagatt gatgtgatat ctccactgac 180

gtaagggatg acgcacacgc agccatggtc ctgaaccttc acctcgtccc tataaaagcc 240

tagccaacct tcacaatctt atcatcacc acaacaccga gcaccacaaa ctagagatc 299

<210> 37

<211> 453

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:MP1217
promoter

<220>

<221> misc_feature

<222> (8) .. (15)

<223> G-like box

<220>

<221> enhancer

<222> (40) .. (77)

<223> Enhancer box

<220>

<221> misc_feature

<222> (102) .. (109)

<223> G-like box

<220>

<221> enhancer

<222> (134) .. (171)

<223> Enhancer box

<220>

<221> misc_feature

<222> (197)..(204)

<223> G-like box

<220>

<221> enhancer

<222> (229)..(266)

<223> Enhancer box

<220>

<221> TATA_signal

<222> (385)..(391)

<223> TATA box

<220>

<221> misc_feature

<222> (415)

<223> Transcription Initiation Site

<400> 37

acgccgatta cgtggcttta gcagactgtc caaaaatctg ttttgcaaag ctccaattgc 60
tccttgctta tccagcttct tttgtgttgg tctagacgcg attacgtggc tttagcagac 120
tgtccaaaaa tctgttttgc aaagctccaa ttgctccttg cttatccagc ttcttttgtg 180
ttgggtctaga cgccgattac gtggctttag cagactgtcc aaaaatctgt tttgcaaagc 240
tccaattgct ccttgcttat ccagcttctt ttgtgttggc aaactgcgct tttccaaccg 300
attttgttct tctcgcgctt tcttcttagg ctaaacaaac ctcaccgtgc acgcagccat 360
ggctctgaac cttcacctcg tccctataaa agcctagcca accttcacaa tcttatcatc 420
accacaaca ccgagcacca caaactagag atc 453

119

119